# This Page Is Inserted by IFW Operations and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

### IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

### ASSIGNMENT

THIS ASSIGNMENT is made and effective as of the 24<sup>th</sup> day of December, 2002. by INTERMEC IP CORP. (hereinafter referred to as the "ASSIGNOR"), a company organized and existing under the laws of Delaware, having a principal place of business at 21900 Burbank Boulevard, Woodland Hills, CA 91367.

#### WITNESSETH

WHEREAS, said ASSIGNOR is the owner of the entire right, title and interest in and to the Patent Applications and Patents in the United States of America and other foreign countries, set forth in Attachment A hereto;

WHEREAS, BROADCOM CORPORATION, a company organized and existing under the laws of Delaware, having a principal place of business at 16215 Alston Parkway, Irvine, California 92619, (the "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to such Patents Applications and Patents, both from the United States and foreign.

Now therefore, in exchange for receipt of good and sufficient consideration, the receipt and sufficiency of which is hereby acknowledged, and as agreed to by the ASSIGNEE and ASSIGNOR, ASSIGNOR hereby assigns and transfers to ASSIGNEE and ASSIGNEE accepts, all of the rights, title and interest of ASSIGNOR throughout the World in and to any and all inventions claimed or disclosed in such Patent's and Patent Applications which are set forth and listed in Attachment A hereto.

This Assignment includes all of ASSIGNOR's right, title and interest in, to and under each of the Patent Applications and Patents set forth and listed in Attachment A hereto (including, without limitation, rights to damages and payments for past, present or future infringements or misappropriations), and, as agreed between the parties, all continuations, continuations-in-part, divisionals, substitute, reexaminations, post-opposition foreign counterpart patents, and applications, reissues and extensions thereof, if any; and, ASSIGNOR requests the Commissioner of Patents of the United States (and all foreign officials, whose duty it is to issue patents on applications as aforesaid) to record ASSIGNEE as the owner of such Patent or Application, to the same extent as held by ASSIGNOR, and to issue the Letters Patent for said Patents to be in the name of the said ASSIGNEE, as an assignee of the Patents.

INTERMEC IP CORP., ASSIGNOR

В**у**: \_

BROADCOM CORP., ASSIGNEE

. Bv:

County of Los Angeles

22

State of California

On December 23, 2002, before me,

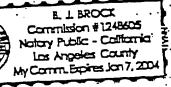
BJ Brock, Notary Public

personally

appeared Daniel S. Bishop personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the entity upon behalf of which he/she acted, executed the instrument.

WITNESS my hand and official seal:

NOTARY PUBLIC



County of Orange
State of California )
On January 17, 2003, before me, Virginia Lee Nawicki, Wolany Publipersonally
appeared William J Ruehle, personally known to me to be the person whose name subscribed to the within instrument and acknowledged to me that heart executed the same is
his/her authorized capacity, and that by his/her signature on the instrument, the entity upon
behalf of which he/she acted, executed the instrument.
WITNESS my hand and official seal:
NOTARY PUBLIC
VIRGINIA LEE NOWICKI: Commission # 1313427
Notary Public - California

My Comin

s Au<del>o</del> 10.

## ATTACHMENT A

DocketNor	Puning Semi	Connic	
6500	4910794	US	Mobile Radio Data Communication System & Method
6500ZXD	10/057816		Remote Radio Data Communication System with Data Rate Switching
3662 <i>5</i> X	4924462	US	Multiterminal Communication System and Method
7139	5052020 :	20.	Method of and Apparatus for Controlling Modulation of Digital Signals
		. ,08	in Frequency-Modulated Transmissions
37139X/CA	.2074169	. CA	Method of and Apparatus For Controlling Modulation of Digital Signals in Frequency-Modulated Transmissions
6500X	5070536	US	Mobile Radio Data Communication System and Method
•	1316218	·CA	Mobile Radio Data Communication System and Method
<u> </u>	2223914	GB	Mobile Radio Data Communication System and Method
36767X:Y .	5202817	US	Hand-Held Data Capture System With Interchangeable Modules
36767XZ	5218187 .	US	Hand-Held Data Capture System with Interchangeable Modules
	678135	UA	Hand-Held Data Capture System with Interchangeable Modules
-	69231057.6	. DE	Hand-Held Data Capture System with Interchangeable Modules
	573567	· GB	Hand-Held Data Capture System with Interchangeable Modules
	210478	8 CA	Hand-Held Data Capture System with Interchangeable Modules
· · · · · ·	573567	FR	Hand-Held Data Capture System with Interchangeable Modules
37882X	5295154	US	Radio Frequency Local Area Network
36767YXX	5313053	US	Laser Scanner Module Having Integral Interfacing with Hand-Held Da Capture Terminal
36767XZX	5331136	US	Hand-Held Data Capture System with Interchangeable Modules
38127	08/51365	8 US	Modular, Portable Data Processing Terminal For use in a Communication Network
37139XX	5365546	. US	Method of and Apparatus for Controlling Modulation of Digital Signa in Frequency Modulated Transmissions
37882YC	5394436 .	US	Radio Frequency Local Area Network
36767XB	08/47848	8 US	Hand-Held Data Capture System with Interchangeable Modules
36767XYA	5418684	US	Hand-Held Data Capture System with Interchangeable Modules
37834ZX	5425051	. US	Radio Frequency Communication Network Having Adaptive Paramet
37882XA	5428636	. US	Radio Frequency Local Area Network
36500XXX	5483676	US	Mobile Radio Data Communication System and Method
INT094-04	5495500	ZU	Homodyne Radio Architecture for Direct Sequence Spread Spectrum Data Reception
37972C	5500872	US	Spread Spectrum Base Band Processor

2Docket-No	Eitent No	5000	Com :=	
		PER NOTE :		
37882YAX	5504746		, US	Radio Frequency Local Area Network
DN 37882YPCT	•	02012917.7	EP	Radio Frequency Local Area Network
	664864	4	. UA	Radio Frequency Local Area Network
ł ·	701114	4	. AU	Radio Frequency Local Area Network
36808XYC	5515303		US	Hand-held Computerized Data Collection Terminal with Rechargeable Battery Pack Sensor and Battery Power Conservation
36808XYE	•	08/921485	· US	Hand-Held Computerized Data Collection Terminal
56767XYC	5530619	•	ΰs	Hand-held Data Capture System with Interchangeable Modules and Side-Mounted Function Key
37940E	5539193	•	US	Modular Hand-Held Data Entry System
37940F	5539194		US	Modular Hand-Held Data Entry System
38050B	5546397		US	High Reliability Access Point for Wireless Local Area Network
3,8050BB		09/357429	US	Local Area Network Having Multiple Channel Wireless Access
37139XXA	5555276	•	US·	Method of and Apparatus for Controlling Modulation of Digital Signals in Frequency - Modulated Transmissions
INT093-49	. 5565670		US ·	Cordless RF Link for Bar Code Input Device Modulating Impulses : Corresponding to Data State Transitions
36767XZXX ·	5567925 .		US -	Hand-Held Data Capture System with Interchangeable Modules
37998XB :	5574979	:	US	Periodic Interference Avoidance in a Wireless Radio Frequency  Communication System
38017	5590346	•	US	Antenna Cap for Computer Device Utilizing a Radio Card
INT093-09C	5602380		US	Barcode Scanner-Reader Wireless Infrared Link
37967B	5602854	• •	US.	Wireless Personal Local Area Network Utilizing Removable Frequency Modules with Digital Interfaces and Idle Sense Communication Protocol
INT090-05C	5610595	•	US	Packet Radio Communication System Protocol
38157	5627412		US	Dynamically Switchable Power Supply
38157XA		09/735406	US	Battery Powered Device with Dynamic Power and Performance Management
57998XD	5657317	· ·	US	Hierarchical Communication System Using Premises, Peripheral and Vehicular Local Area Networking
37882AXX	5673031	. 1 <u></u>	· US	Redundant Radio Frequency Network Having a Roaming Terminal Communication Protocol
37882AAYC		09/960265	US	Redundant Radio Frequency Network Having a Roaming Terminal Communication Protocol
37977B	5679943	•	us '	Hand-Held Terminal with Display Screens, Interactive Screens, Magnetic Credit Card Readers, Scanners, Printers and Handlers
3676TXZAB	5680633		US	Modular, Portable Data Processing Terminal for use in a Radio Frequency Communication Network

DacketNe		20 Z Z Z Z Z	Coin	
38163AY :		08/973195	US	Spread Spectrum Transceiver Module Utilizing Multiple Mode Transmission
37967C	5682379		US	. Wireless Personal Local Area Network
·	69684	1 .		
		2152598	CA	Wireless Personal Local Area Network
		94905966.1	EP	Wireless Personal Local Area Network
7967X .	· ·	08/499328	US.	Transaction Control System Including Portable Data Terminal and Mobile Customer Service Station
7998G-	5696903	· ·	· US	Hierarchical Communications System using Microlink Day P
NT094-11	5703950		US	Switching, Frequency Hopping and Vehicular Local Area Networking  Method and Apparatus for Controlling Country Specific Frequency  Allocation
7834YYB	5708680		US	Network Utilizing a Controller and Base Transcrivers to Base V
3000FB	5708833		US	Antenna Cap, Antenna Connectors and Telephone Line Connectors
8000FBA		09/006566	US	Computer Devices Utilizing Radio and Modern Cards  Antenna Cap, Antenna Connectors and Telephone Line Connectors for
7998XG	5726984	-	US	Computer Unitering Radio and Modern Cards
8099A	5734585			Hierarchical Data Collection Network Supporting Packetized Voice Communications Among Wireless Terminals and Telephones
		· · ·	US	Method and Apparatus for Sequencing Power Delivery in Mixed Suppl Computer Systems
7882YD	5740366		US	Communication Network Having a Plurality of Bridging Nodes which Transmit A Beam to Terminal Nodes in Power Saving State that it Has Messages Awaiting Delivery
808YXCB	5747786		US	Communication Module for a Data Capture System
009EA	5748619		US ·	Communication Network Providing Wireless and Hard-Wired Dynamic Routing
· .	679593	•	AU ·	Communication Network Providing Wireless and Hard-Wired Dynamic Routing
000G/EP	•	94916663.1	EP	Multiple Antenna Selection and Antenna Cap for Computer Devices Utilizing Radio and Modern Cards
072	5748676		US	Network Utilizing Modified Preambles that Support Antenna Diversity
998XE · · · :	5790536		US	Hierarchical Communication System Providing Intelligent Data Program and Processing Migration
•	700800	·. : '	AU .	
	715628	•	ΔŪ :	Hierarchical Communication System Providing Intelligent Data, Program and Processing Migration
998XE/EP		95927421.8	EP ·	Hierachical Communication System Providing Intelligent Data Program

DUOCKEEN	E Katenii			
				and Processing Migration
37998XEB		09/723930	·US	Hierarchical Communications System
FEREN		TO THE	US	Enhanced Mobility and Address Resolution in a Wireless Premise Based Network
36837E	5805807		US	Multilevel Data Communication System Including Local and Hos Systems
37834YYA	5844893		US	System for Coupling Host Computer Meanswith Base Transceive on a Local Area Network
37834YY1	•	09/972749	US.	System for Coupling a Multiplicity of RF Data Collection Termin with Host Computer Means
37834ZXA	5862171	· · ·	. US	Radio Frequency Communication Network Having Adaptive Communication Parameters
37834ZXC		09/799340	US	Radio Frequency Communication Network Having Adaptive Communication Parameters
38017A	5870279		US	Antenna Cap for Computer Device Utilizing a Radio Card
38066X	. 5880867	· ·	US	Infrared Backbone Communication Network Having a Radio Free Backup Channel
38066A.	5880868		· US	Infrared Backbone Communication Network Having a Radio Free Backup Channel
36500YZCXA	5896561		US	Communication Network Having a Dormant Polling Protocol
36767XYD	5898162	•	· US	Hand-Held Data Capture System with Interchangeable Module
ENT096-32	5912921		US	Concurrent Multiple Data Rate Communications in a Wireless LocArea Network
37139XXB.	5912926	:	· · US	Method and Apparatus for Controlling Modulation of Digital Sign Frequency Modulated Transmissions
37940G .	5917175		US	Modular Hand-Held Data Entry System with Voice Interface
INT094-11C	5940509	-	· US	Method and Apparatus for Controlling Country Specific Frequence
37834XXBX	5940771		US	Network Supporting Roaming, Sleeping Terminals
37834XXBY	<del></del>	09/318668	US	Network Supporting Roaming, Sleeping Terminals
NT096-30	5946344		.US	Multiple-Rate Direct Sequence Architecture Utilizing a Fixed Chip Rate and Variable Spreading Code Lengths
NT 096-30JP		10-542772	ΤP	Multiple-Rate Direct Sequence Architecture Utilizing a Fixed Chippin and Variable Spreading Code Lengths
17998XDA .	5949776		US	Hierarchical Communication System using Premises, Peripheral ar Vehicular Local Area Networking
8050BAY	5960344		US	Local Area Network Having Multiple Channel Wireless Access
NT096-25	5982812		US:	Method and Apparatus for Monitoring Frequency Synthesizer Lock
8190R	5990733		US	Delay Line Ramp Demodulator
SUODEA	5991864		US	Power Connectors, Antenna Connectors and Telephone Line Conne

36649XZC 6006 6 4 4 4 4 4 4 36649XZD	530 385 100 96116280. 41541 94298 94298 94298 94298 94298 94298 94298 94298	US US US 7 EP AU GB DE ES FR IT NL US	for Computer Devices Utilizing Radio and Modem Cards Switched Gain Antenna for Enhanced System Performance Methodology for Discontinuous Radio Reception Utilizing Embedded Frame Length Words Multi-Level, Hierarchical Radio-Frequency Communication System
36649XZC 6006 4 4 4 4 4 36649XZD	96116280. 41541 94298 94298 94298 94298 94298 94298 94298 94298	US 7 EP AU GB DE ES FR IT NL	Switched Gain Antenna for Enhanced System Performance  Methodology for Discontinuous Radio Reception Utilizing Embedded Frame Length Words  Multi-Level, Hierarchical Radio-Frequency Communication System  Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System
36649XZC 6006 4 4 4 4 4 36649XZD	96116280. 41541 94298 94298 94298 94298 94298 94298 94298 94298	US 7 EP AU GB DE ES FR IT NL	Switched Gain Antenna for Enhanced System Performance  Methodology for Discontinuous Radio Reception Utilizing Embedded Frame Length Words  Multi-Level, Hierarchical Radio-Frequency Communication System  Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System
36649XZC 6006 4 4 4 4 4 36649XZD	96116280. 41541 94298 94298 94298 94298 94298 94298 94298 94298	US 7 EP AU GB DE ES FR IT NL	Methodology for Discontinuous Radio Reception Utilizing Embedded Frame Length Words  Multi-Level, Hierarchical Radio-Frequency Communication System
36649XZC 6006 4 4 4 4 4 4 4 4 36649XZD	96116280. 41541 94298 94298 94298 94298 94298 94298 94298 09/467255	US 7 EP AU GB DE ES FR IT NL	Multi-Level, Hierarchical Radio-Frequency Communication System
6 4 4 4 4 4 4 36649XZD	96116280. 41541 94298 94298 94298 94298 94298 94298 94298	7 EP AU GB DE ES FR IT NL	Multi-Level, Hierarchical Radio-Frequency Communication System
4 4 4 4 4 36649XZD	41541 94298 94298 94298 94298 94298 94298 94298	AU GB DE ES FR IT NL	Multi-Level, Hierarchical Radio-Frequency Communication System
4 4 4 4 4 36649XZD	94298 94298 94298 94298 94298 94298 09/467255	GB DE ES FR IT NL	Multi-Level, Hierarchical Radio-Frequency Communication System
4 4 4 4 36649XZD	94298 94298 94298 94298 94298 09/467255	DE ES FR IT NL	Multi-Level, Hierarchical Radio-Frequency Communication System
4 4 4 36649XZD	94298 94298 94298 94298 09/467255	ES FR IT NL	Multi-Level, Hierarchical Radio-Frequency Communication System
4 4 4 36649XZD	94298 94298 94298 09/467255	FR IT NL	Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System
4 4 36649XZD	94298 94298 09/467255	IT NL	Multi-Level, Hierarchical Radio-Frequency Communication System Multi-Level, Hierarchical Radio-Frequency Communication System
4 36649XZD	94298 . 09/467255	NL	Multi-Level, Hierarchical Radio-Frequency Communication System
36649XZD	09/467255		
		US	Multi-Level, Hierarchical Radio-Frequency Communication System
INT096-29 60091	. 19		
	<u> </u>	US	Adaptive Power Leveling of an RF Transceiver Utilizing Information Stored in Non-Volatile Memory
36767XZAC .60147	705	US	Modular Portable Data Processing Terminal Having A Higher Layer and
		•	Lower Layer Partitioned Communication Protocol Stack for use in a Radio Frequency Communication Network
36767XZAE	09/597917	US	Modular Portable Data Processing Terminal for use in a Radio Frequency Communication Network
38072A · 60185	555	US	Network Utilizing Modified Preambles that Support Antenna Diversity
36808YXCD 60231	.47	US	Hand-Held Computerized Data Collection Terminal with Rechargeable Battery Pack Sensor and Battery Power Conservation
37882YAYA 60465	92 .	. US	A Radio Frequency Local Area Network
37882YAYB	09/542424	· US	A Radio Frequency Local Area Network
INT096-31 60758	07	US	Windowed Digital Matched Filter Circuit for Power Reduction in Battery-Powered CDMA Radios
37882XBA 60848	67 .	US	Apparatus and Method of Routing Data in a Radio Frequency Local Area Network
36837EA 61924	00	US	Multilevel Data Communication System Including Local and Host Systems
36767XYE 62445	12	US.	Hand-Held Data Capture System with Interchangeable Modules
38234RX 62818	50	US	Broadband Multiple Flement Antenna System
INT097-02 63208	96	US	RF Receiver Having Frequency-Hopping/Direct-Sequence Spread Spectrum Signal Discrimination
INT097-03 63273	12	US	RF Narrowband/Wideband Discriminating System for Spread Spectrum Signal Differentiation
37967CA 63598	72	US	Wireless Personal Local Area Network

.

.

÷

DacketNo	Patentino	S S S T T S	County	ola
37967CAA		10/101436	US .	Wireless Personal Local Area Network
37882YE 37882YEA	6374311	10/123873	US US	Radio Frequency Local Area Network Radio Frequency Local Area Network
37998XGA 37998XGB	6389010	10/141506	US	Hierarchical Data Collection Network Supporting Packetized Voice Communications Among Wireless Terminals and Telephones  Hierarchical Data Collection Network Supporting Packetized Voice Communications Among Wireless Terminals and Telephones
37882XBB 37882XBC	6400702	10/162229	US	A Radio Frequency Local Area Network Radio Frequency Local Area Network
38009EBA :	6407991		.US	Communication Network Providing Wireless and Hard-Wired Dynamic Routing
38009EBB		10/144250 .	US	Communication Network Providing Wireless and Hard-Wired Dynamic Routing